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SHARP 21K-FD3RU OPERATION MANUAL

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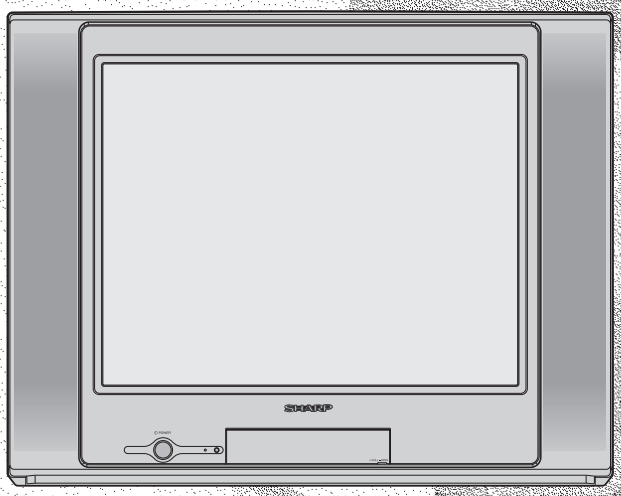
SHARP®

COLOUR TELEVISION

21K-FD3RU
21K-FD5RU

OPERATION MANUAL



Please read this operation manual carefully before using the colour television.

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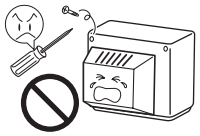
TINS-C150WJZZ 1
05P12-MSP

E1 SAFETY PRECAUTIONS

Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.

Servicing

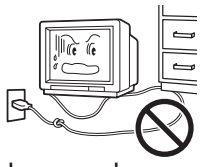


To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.

Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set. Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

Power-cord protection



To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.

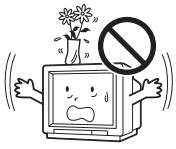
Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.

Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

Liquid entry

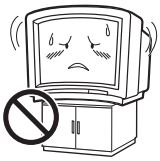


Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.

Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.

TV Set position



Do place the TV set onto an even stand, table or rack which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or rack may cause the TV cabinet to distort.
Do not put or insert anything between TV set and the stand, table or rack.

Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Ventilation

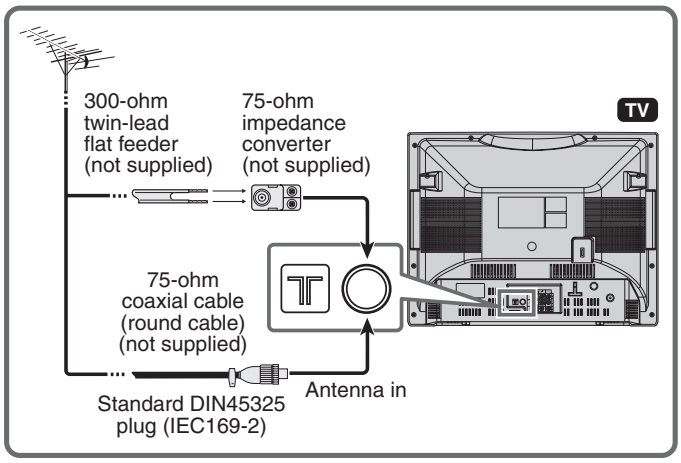
Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

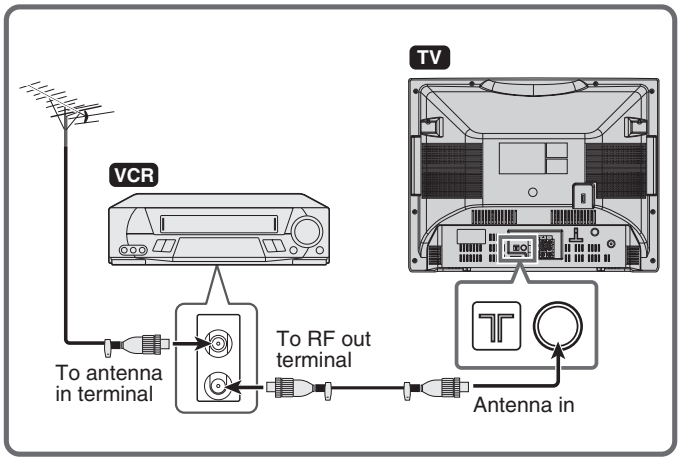
E2 BEFORE OPERATING TELEVISION

Connecting to an antenna



If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

Connecting to an antenna via a VCR

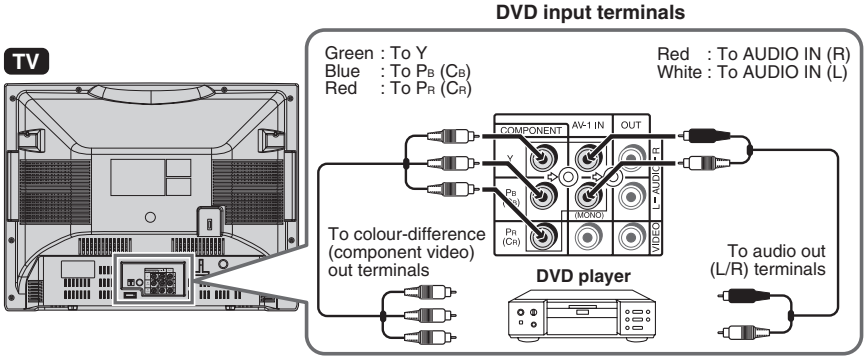


If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.

E3 CONNECTING AND WATCHING DVD

Connecting to a DVD player

The DVD input terminals (COMPONENT-IN) on the rear of the TV can be used to input high-quality images from a DVD player.



Connecting the video terminals

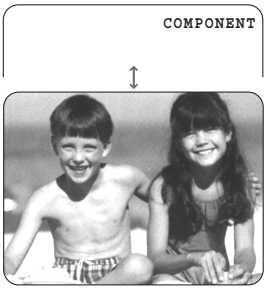
DVD input terminals		DVD player
COMPONENT-IN VIDEO	Y	Y or Y/Y
	$P_B(C_B)$	$P_B(C_B)$ or B-Y/Pb
	$P_R(C_R)$	$P_R(C_R)$ or R-Y/Pr

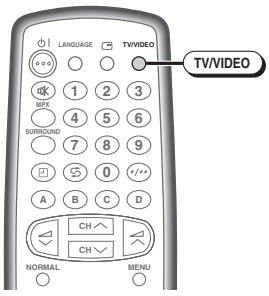
Watching DVD

❶ Press (TV/VIDEO) to select "COMPONENT", DVD input screen.

❷ Turn on the DVD player and begin playback.

- When connecting the TV to a DVD player via the COMPONENT-IN terminals, the video and audio from the DVD player cannot be output through the Audio/Video out terminals on the TV.





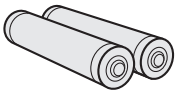
NOTE

- When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.

E4 ACCESSORIES

The following accessories are included with this television.

Remote Control

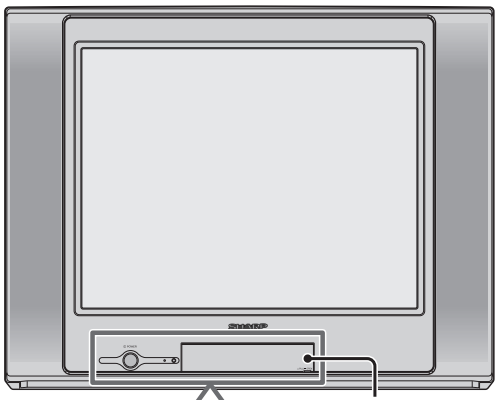


Size-AA batteries

Operation manual

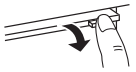
E5 PART NAMES

TV set

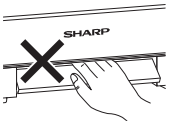


To open the door
Using the projection located under the "△PULL-OPEN" indication, pull and lift the door open.

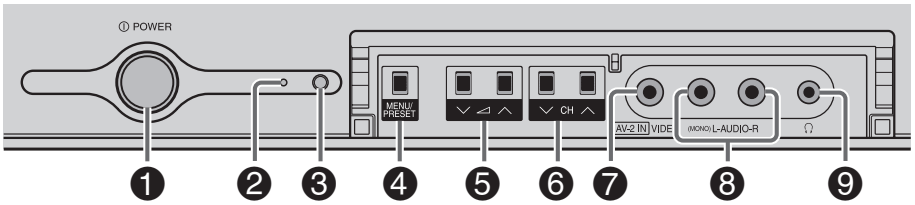
To close the door
Using the projection, lower the door until closed.



Caution:
- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



Bottom



❶ (⏻ POWER) ⏻ **POWER switch**
Turns on and off the main power.

❷ **Power indicator**
Power can be turned on by the remote control when the indicator is dimly lit.

❸ **Infrared sensor window**
Receives the infrared wave from the remote control.

❹ (MENU/PRESET) **MENU/PRESET button**
Tunes the channels.
Used for MENU setup.

❺ (◿△) / (◿▽) **Volume up/down buttons**
Adjusts the volume.
Makes adjustments in PRESET.

❻ (CH △) / (CH ▽) **Channel up/down buttons**
Selects the channels.
Tunes or sets the channels.

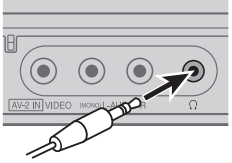
❼ **Video input terminal (AV-2 IN)**
Connects to a camcorder, video game, etc.

❽ **Audio input terminals (AV-2 IN)**
Connects to a camcorder, video game, etc.

❾ **Headphone jack**
Use to listen to the audio with headphone.

Using headphone

[Behind the door]

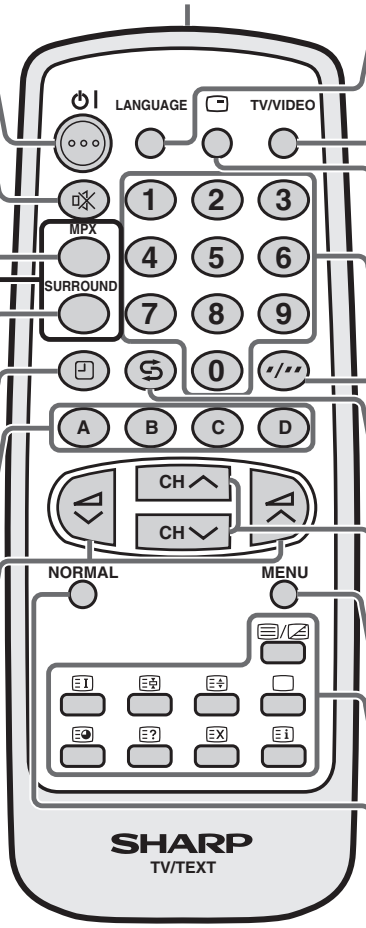


Insert headphone plug into headphone jack to listen to audio with headphone.
- The audio from the speakers is turned off.

NOTE
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.

PART NAMES (Continued)

Remote control



Infrared transmitter window
Aim this window at the infrared sensor window on your TV set.

Turns the TV on or to Standby mode.

Mutes the sound and restores sound to previous level.

MPX
Switches between main and sub sound,and stereo and monaural sound.

SURROUND
Produces a more spacious sound.

Calls the TIMER screen.

Colour buttons
Operate the Favourite Channel and Teletext functions.

Adjusts the volume.
Used for MENU setup.

Only for 21K-FD3RU

VIDEO 1 To enter AV1 (or COMPONENT) directly.

VIDEO 2 To enter AV2 directly.

LANGUAGE
Changes the on-screen display language.

TV/VIDEO
Switches between TV broadcasts and A/V input programmes.

Displays the channel and timer settings on the screen.

Number buttons

Switches between one- or two-digit mode channel selection.

Returns to previously viewed channel.

CH / **CH**
Selects the channel.
Used for MENU setup.

MENU
Calls the MENU screen.

Teletext buttons
Operate the Teletext functions.

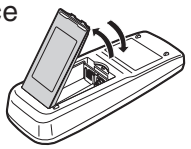
NORMAL
Resets all settings.

OSD indicator quick reference

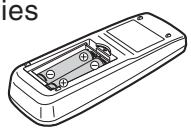
OSD indicator	Remote control	TV set	Operation
↕	CH / CH	CH	Used to select items.
↔	◁ ▷	◁	Used to adjust or enter the selected items.
↩	MENU	MENU/PRESET	Used to return to previous screen or exit Menu screen.

Installing batteries

1 Pull up or replace back the battery cover.



2 Insert two batteries (size AA). Be sure to match the battery ⊕/⊖ terminals.



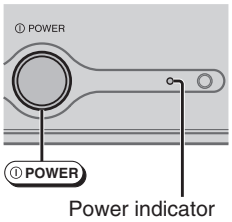
NOTE

- OSD: On-Screen Display
- Please refer to this table for all the OSD operation in this manual.

BASIC OPERATION

Turn on the power

[TV Set (Bottom)]



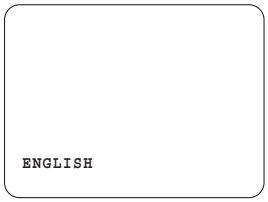
- When the power indicator is off, press POWER.
- When the power indicator lights up dimly, press ⏻ on the remote control. The power indicator changes to bright and a picture appears.

On-screen display language selection

Remote Control

- Press LANGUAGE to select desired language.
- Pressing LANGUAGE changes the language as shown below.

ENGLISH ⟷ РУССКИЙ



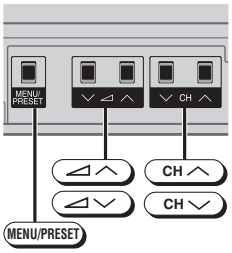
TV set

- Press MENU/PRESET for more than two seconds, the language select mode appears.
- Press CH ∧ / CH ∨ to select desired language.
- Pressing MENU/PRESET changes the screen as shown below.

Language ⟶ AUTO ⟶ MANUAL ⟶ Normal screen

- Press MENU/PRESET until normal screen appears.

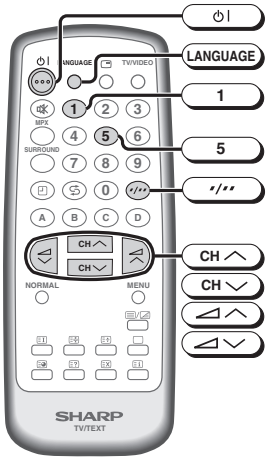
[Behind the door]



Channel selection

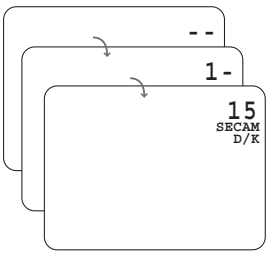
❶ Using CH ∧ / CH ∨

- Press CH ∧ and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 (or COMPONENT) → AV2 → 0 → 1 → 2 ...
- Press CH ∨ and channels change as shown below.
  1 → 0 → AV2 → AV1 (or COMPONENT) → 99 → 98 → ... → 2 → 1 → 0 ...



❷ With the number buttons (on remote control)

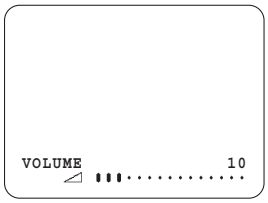
- To select a one-digit channel, such as 5, press 5. If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.



Adjusting volume

❶ Adjust volume using ◿ ∧ / ◿ ∨.

- The volume bar disappears approximately three seconds after the volume has been adjusted.



NOTE

- When the power indicator lights up dimly, either CH ∧ / CH ∨ on the TV can be pressed to turn on the power.
- Channels that have been skipped cannot be selected by CH ∧ / CH ∨.
- The AV1 (or COMPONENT), AV2 input channels cannot be selected using CH ∧ / CH ∨ on the remote control. Use TV/VIDEO to select these channels.

E7 PRESETTING CHANNELS

Auto channel tuning

Automatically tunes in and presets receivable TV stations.

❶ Press (MENU/PRESET) for more than two seconds.

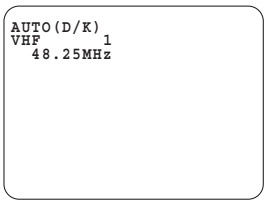
❷ Press (MENU/PRESET) again to display AUTO mode screen.

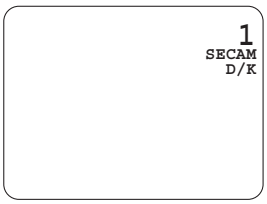
- Pressing (MENU/PRESET) changes the screen as shown below.

Language ⟶ AUTO ⟶ MANUAL ⟶ Normal screen

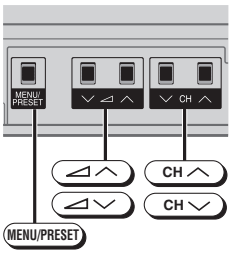
❸ Press (◿^) / (◿v) on TV set.

- All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.
- The screen shows whatever is on channel 1 when auto channel preset is finished.





[Behind the door]



Manual channel tuning

Enables manual channel tuning to a desired TV station.

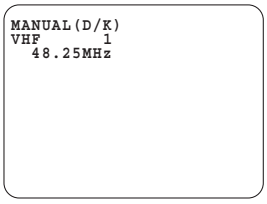
❶ Press (MENU/PRESET) for more than two seconds.

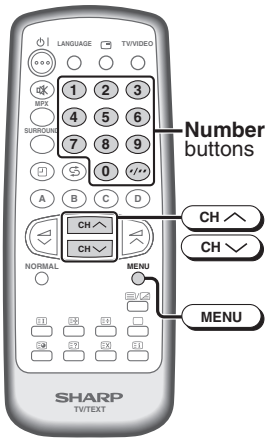
❷ Press (MENU/PRESET) twice to display MANUAL mode screen.

- Pressing (MENU/PRESET) changes the screen as shown below.

Language ⟶ AUTO ⟶ MANUAL ⟶ Normal screen

❸ Press (CH ^) / (CH v) or number buttons to select channel position.





❹ Press (◿^) / (◿v) on TV set to locate channel you wish to preset to current channel position.

- Search is initiated and when a TV signal is received during the search, the search stops.

❺ Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.

❻ Press (MENU/PRESET) again to display normal screen.

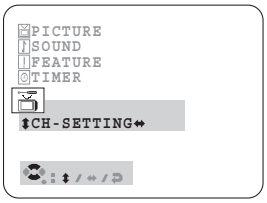
NOTE

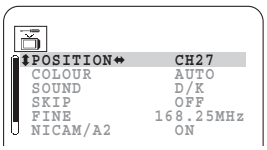
- SOUND SYSTEM may not have been set correctly, if noise can be heard or if there is no sound. In such cases, adjust the SOUND SYSTEM using the (MENU) on the remote control.
- AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET.

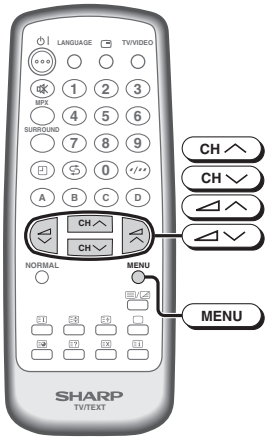
SETTING AND ADJUSTMENT

Channel setting

Enables individual channel setting.







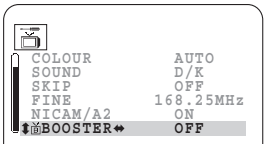
1. **Press MENU to call MENU screen.**
2. **Press CH ∧ / CH ∨ to select "CH-SETTING".**
3. **Press ◁ ∧ / ◁ ∨ to display CH-SETTING menu.**
4. **Press CH ∧ / CH ∨ to select desired setting.**
5. **Each time you press ◁ ∧ / ◁ ∨, setting for individual items change as follows:**

- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**
  ↱ AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ↰
- **SOUND**
  ↱ B/G ⟷ I ⟷ D/K ⟷ M ↰
- **SKIP**
  ON ⟷ OFF
  Channel numbers with a "✚" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**
  The frequency changes to allow fine tuning.

Only for 21K-FD5RU

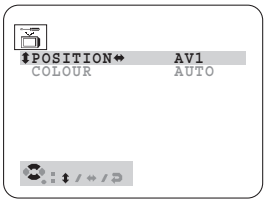
- **NICAM/A2 stereo system**
  ON (NICAM sound or A2 stereo sound) ⟷ OFF (Monaural TV sound)

- **BOOSTER**
  Picture quality may improve in regions with weak signal strength using this function.
  ON Ⅰ ⟷ ON Ⅱ ⟷ OFF



  - If ON Ⅰ is selected and the picture quality is still not good enough, please switch to ON Ⅱ.
  - If signal strength is strong enough for the selected channel, the effect is negligible and may produce instability. In such a case select "OFF".

6. **Press MENU until normal screen appears.**
   - When you select AV1, AV2 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:
     ↱ AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ↰

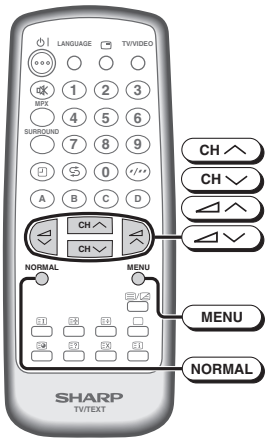


NOTE

- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- When using FINE, the channel number changes from green to yellow.

SETTING AND ADJUSTMENT (Continued)

Picture or Sound adjustment



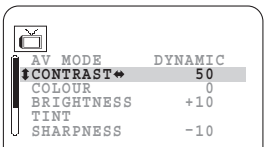
1. **Press MENU to call MENU screen.**
2. **Press CH ∧ / CH ∨ to select "PICTURE" or "SOUND".**
3. **Press ◁ ∧ / ◁ ∨ to display PICTURE or SOUND menu.**
4. **Press CH ∧ / CH ∨ to select adjustment items.**
5. **Adjust using ◁ ∧ / ◁ ∨.**
   - Wait for approximately three seconds to return to PICTURE/SOUND menu.
6. **Repeat steps 4 and 5 above to adjust other items.**
7. **Press MENU until normal screen appears.**

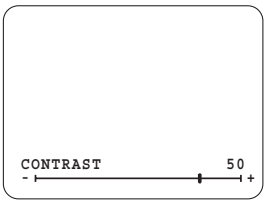
The following table lists the adjustment items shown in the PICTURE/SOUND menu and how they change as you press ◁ ∧ / ◁ ∨.

[PICTURE menu screen]

PICTURE menu table

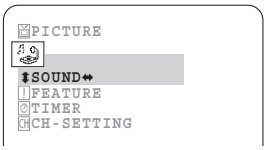
Selected item	Press ◁ ∨		Press ◁ ∧
AV MODE	DYNAMIC ⟷ SOFT ⟷ STANDARD		
CONTRAST	To decrease contrast	- +	To increase contrast
COLOUR	For less colour intensity	- +	For more colour intensity
BRIGHTNESS	For less brightness	- +	For more brightness
TINT*	To move tint toward red	◆ ◇	To move tint toward green
SHARPNESS	For less sharpness	- +	For more sharpness
ANR		ON I ⟷ ON II ⟷ OFF	(See note below)
WHITE TEMP	To more reddish background	◆ ◇	To more bluish background





*: TINT can only be selected and adjusted when receiving NTSC broadcasts.

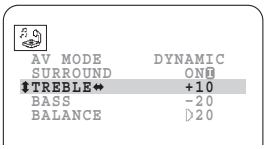
- Auto Noise Reduction (ANR)
  Noise might be generated on images when playing deteriorated video tapes or when receiving broadcasts with relatively weak signals. In these cases, set ANR to "ON I" or "ON II" to reduce the noise. However, when receiving good images without noise, you can get better image quality by turning OFF this feature. If ON I is selected and the image is still with noise, please switch to ON II.
- WHITE TEMP can only be adjusted on PICTURE menu.
- The CONTRAST, COLOUR, BRIGHTNESS, TINT, SHARPNESS and WHITE TEMP setting can be set differently for individual AV Mode setting.

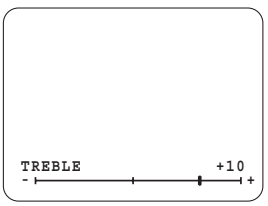


[SOUND menu screen]

SOUND menu table

Selected item	Press ◁ ∨		Press ◁ ∧
AV MODE	DYNAMIC ⟷ SOFT ⟷ STANDARD		
SURROUND		ON I ⟷ ON II ⟷ OFF	
TREBLE	To decrease treble	- +	To increase treble
BASS	To decrease bass	- +	To increase bass
BALANCE	To shift balance toward left	◁ ▷	To shift balance toward right





- The SURROUND, TREBLE, BASS and BALANCE setting can be set differently for individual AV Mode setting.

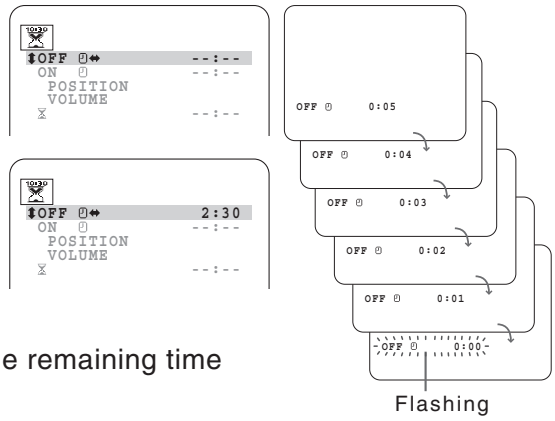
NOTE

- Pressing NORMAL while a PICTURE/SOUND selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while a PICTURE/SOUND menu screen is displayed will reset the individual AV Mode setting to the standard (factory-setting) position.

E9 TIMER SETTING

Off timer

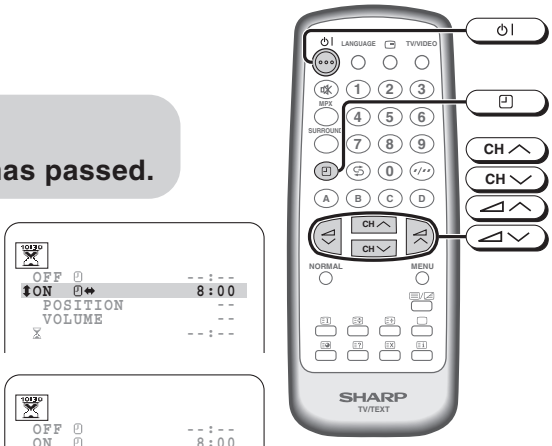
Automatically turns power off after a set length of time has passed.



1. **Press (⏲) to call TIMER screen.**
2. **Press (CH ∧) / (CH ∨) to select "OFF ⏲".**
3. **Press (◿∧) / (◿∨) to set time for TV to turn off.**
   - Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.
4. **Press (⏲) until normal screen appears.**
   - Five minutes before the preset length of time expires, the remaining time appears on the screen.
   - A flashing display of the remaining time appears during the last few seconds. When the preset length of time has passed, the TV set enters the Standby mode.

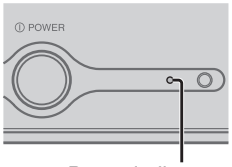
On timer

Automatically turns power on after a set length of time has passed.



1. **Press (⏲) to call TIMER screen.**
2. **Press (CH ∧) / (CH ∨) to select "ON ⏲".**
3. **Press (◿∧) / (◿∨) to set time for TV to turn on.**
   - Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.
4. **Press (CH ∧) / (CH ∨) to select "POSITION".**
5. **Press (◿∧) / (◿∨) to set the channel.**
6. **Repeat step 4 to 5 above to select and set the "VOLUME".**
7. **Press (⏲) until normal screen appears.**
8. **Press (⏻) to put TV set into Standby mode.**
   - Power indicator will flash to indicate On Timer is set.
   - When the preset length of time setting has passed, the power turns on and a picture appears on the screen.
   - The ON TIMER speaker volume gradually increases from zero to preset volume.

[TV Set (Bottom)]



Power indicator (Flashing)

NOTE

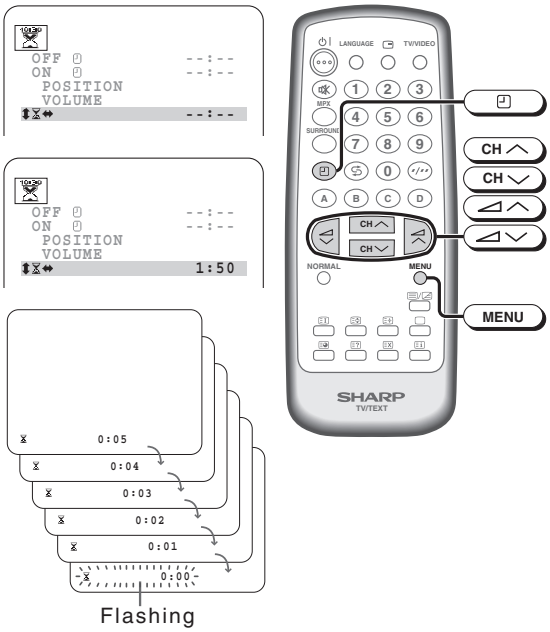
- The Off timer is cancelled if the power is turned off or set to the Standby mode using (⏻) on the remote control or (POWER) on the TV set, or if the power is otherwise interrupted.
- The On Timer is cancelled if the power is turned off using (POWER).
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

E9 TIMER SETTING (Continued)

Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.

1. **Press ⏎ to call TIMER screen.**
2. **Press CH ∧ / CH ∨ to select "⧖".**
3. **Press ◁+ ∧ / ◁+ ∨ to set time.**
   - Maximum time that can be preset is 12 hours and 50 minutes.
   - The right example shows that the Reminder will be activated after one hour and 50 minutes.
4. **Press ⏎ until normal screen appears.**
   - Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.
   - When the preset length of time has passed, "⧖ 0:00" flashes in red.



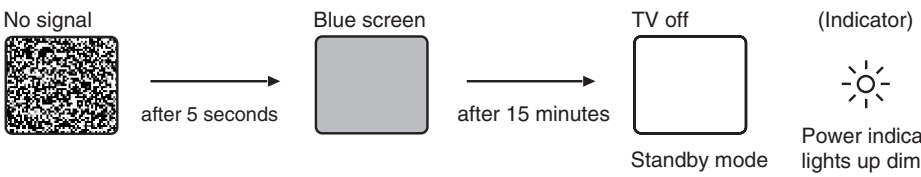
E10 FEATURES

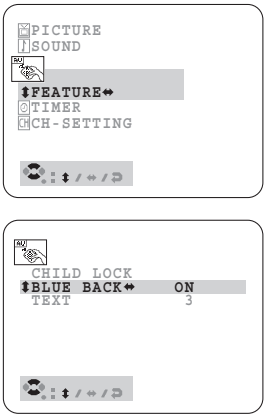
Blue screen

Automatically turns the screen blue if a broadcast signal is not received.

1. **Press MENU to call MENU screen.**
2. **Press CH ∧ / CH ∨ to select "FEATURE".**
3. **Press ◁+ ∧ / ◁+ ∨ to display FEATURE menu.**
4. **Press CH ∧ / CH ∨ to select "BLUE BACK".**
5. **Press ◁+ ∧ / ◁+ ∨ to select "ON" or "OFF".**
6. **Press MENU until normal screen appears.**

When BLUE BACK is set to "ON".



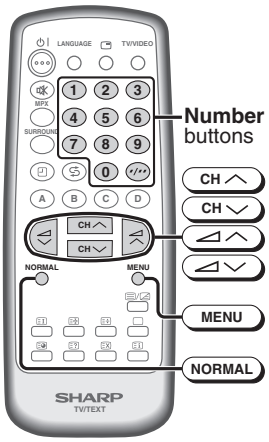


NOTE

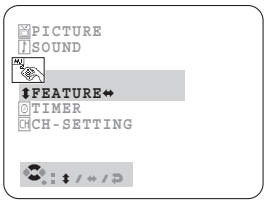
- The Reminder also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 1 minute if no buttons are pressed on the TV set or remote control.
- The Reminder is cancelled if ⏻ POWER on the TV set is pressed or if the power is otherwise interrupted.
- Poor reception due to weak signals and too much noise may activate BLUE BACK, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch "BLUE BACK" to "OFF".
- When Off timer is set, the OFF TIMER setting has priority over BLUE BACK.

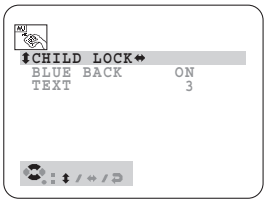
Child lock

Preventing children from watching TV.

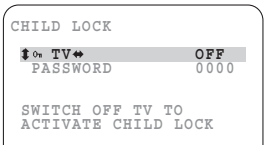


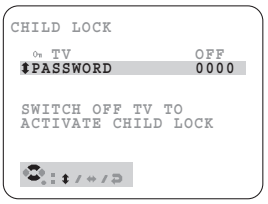
Setting the CHILD LOCK mode (For the first time)





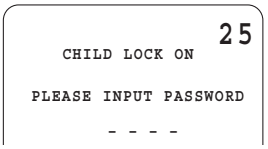
1. **Press MENU to call MENU screen.**
2. **Press CH ∧ / CH ∨ to select "FEATURE".**
3. **Press ◁ ∧ / ◁ ∨ to display FEATURE menu.**
4. **Press CH ∧ / CH ∨ to select "CHILD LOCK".**
5. **Press ◁ ∧ / ◁ ∨ to display CHILD LOCK menu.**
6. **Press CH ∧ / CH ∨ to select desired setting.**
   - **0m TV**
     Press ◁ ∧ / ◁ ∨ to select "0m TV" to "ON" or "OFF".
     - ON: "0m TV" will lock the entire TV for viewing.
     - OFF: "0m TV" deactivated.
   - **PASSWORD**
     Enter 4 digits PASSWORD using **Number** buttons (0~9) on the remote control. (For example: 0000)
     - Press NORMAL to reset the entered number to "0000".
7. **Press MENU until normal screen appears.**
   - The CHILD LOCK mode will be activated after the TV is turned off and on again.

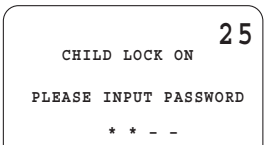


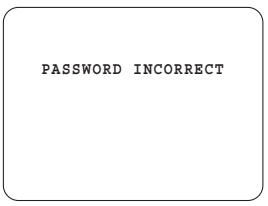


To turn OFF or to change setting of CHILD LOCK mode

1. **While "CHILD LOCK ON" screen appear.**
2. **Enter 4 digits PASSWORD using Number buttons (0~9) on the remote control. (For example:0000)**
   - Press C/AV to clear the entered number.
   - If the wrong PASSWORD is entered, "PASSWORD INCORRECT" screen will appear. Input the PASSWORD again in this case.





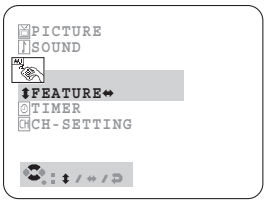


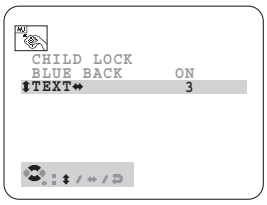
NOTE

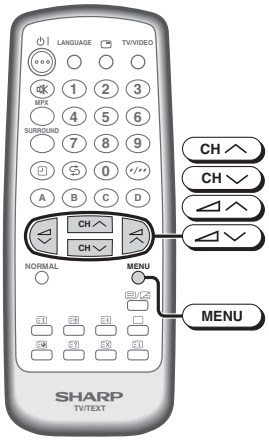
- If you forget your PASSWORD, please input "2398" to enter, then change to new PASSWORD.

Text

This function is for you to select the language of Teletext which fits your country.







1. **Press MENU to call MENU screen.**
2. **Press CH ∧ / CH ∨ to select "FEATURE".**
3. **Press ◁ ∧ / ◁ ∨ to display FEATURE menu.**
4. **Press CH ∧ / CH ∨ to select "TEXT".**
5. **Press ◁ ∧ / ◁ ∨ to select "1", "2", "3", "4" or "5".**
6. **Press MENU until normal screen appears.**

See the following tables to select the TEXT-No. which fits your country.

Language Use	Country	TEXT-No.
English	Australia, Hong Kong, Indonesia, Malaysia, Malta, New Zealand, Singapore, South Africa, UK	1
English/Thai*	Thailand	1
German	Austria, Germany, Holland	1
Swedish	Denmark, Finland, Norway, Sweden	1
Italian	Italy	1
French	France	1
French/German	Belgium	1
French/ German/Italian	Switzerland	1
Spanish	Iceland, Portugal, Spain	1
Latin (Serbo-Croat)	Croatia	2
Czech	Czech Republic	2
Romanian	Romania	2

* Thai language not supported.

Language Use	Country	TEXT-No.
Polish	Poland	3
Estonian	Estonia	3
Lettish	Latvia, Lithuanian	3
Russian Cyrillic	Bulgaria, Russia	3
Cyrillic	Serbia	3
Turkish	Turkey	4
Greek	Cyprus, Greece	4
Arabic/English	U.A.E., Jordan, Kuwait, Oman, Qatar, Sharjah	5
Arabic/(English)	Libya	5
Arabic/French	Egypt	5

Countries which do not support teletext

Language Use	Country	TEXT-No.
Hungarian	Hungary	–
Farsi	Iran	–
Hebrew	Israel	–

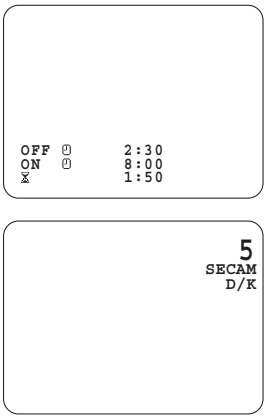
NOTE

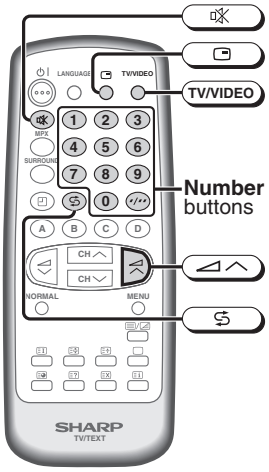
- This list above is shows the Teletext language used in the world, but it is not assured that standard regulation of above listed country is satisfied.
- The selected TEXT-No. may not function in certain countries listed above.

E11 USEFUL FEATURES

Channel / Timer display

Displays the current channel number, the timer, and other settings on the screen.

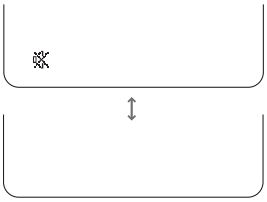




1. **Press (TV).**
   - The time remaining on the Off timer, On timer, and Reminder appears on the screen.
   - When no timer is set, the channel number, colour and sound system appear on the screen.
   - Press (TV) again to clear these current settings display on the screen.
2. **Press (TV) again, the channel number, colour and sound system appear on the screen.**
3. **Press (TV) once again. The display disappears.**

Mute

Silences the sound.



1. **Press (MUTE).**
   - "🔇" appears on the screen, and the sound is silenced.
2. **Press (MUTE) again, the volume returns to its previous level.**
   - Mute will be cancelled if the (VOL ∧) is pressed at any time.

Channel recall

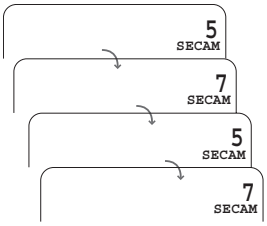
Switches back to the channel you were watching just before the current channel.

Press (RECALL).

- The channel previously viewed returns to the screen.

Example:

After switching from channel 5 to channel 7, (RECALL) is pressed, the channel will change to channel 5. Press (RECALL) again to return to channel 7.



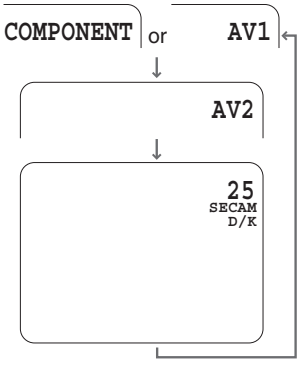
TV / Video selection

Switches between TV broadcasts and AV input programmes.

- Each time you press the (TV/VIDEO), the input switches between AV1 (or COMPONENT), AV2 and TV programme.

Only for 21K-FD3RU

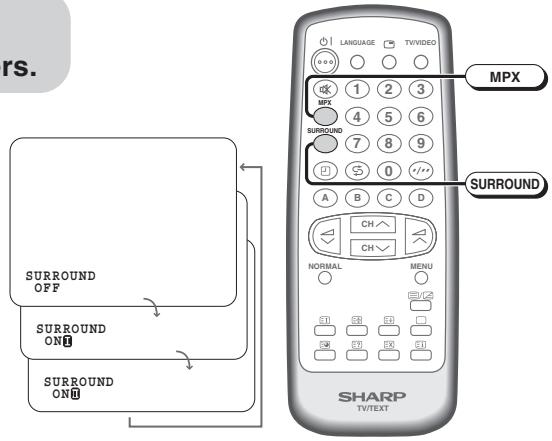
- Press (VIDEO 1) to enter AV1 (or COMPONENT) directly.
- Press (VIDEO 2) to enter AV2 directly.
- Press **Number** buttons to returns to TV programme.



E11 USEFUL FEATURES (Continued)

Surround sound

Produces a virtual surround sound from the TV's speakers.



Each time you press SURROUND (only for 21K-FD5RU), the mode changes between ON I, ON II and OFF.

OFF : Produces normal sound.

ON I : Setting to this mode during stereo signal reception produces a spacious sound, making the most of the speakers' performance.

ON II : Setting to this mode during monaural signal reception creates monaural sound that is similar to stereophonic sound.

NOTE

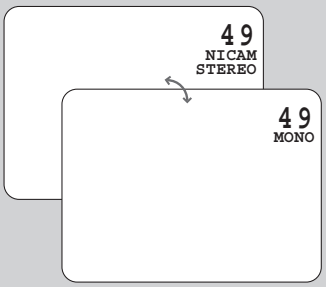
- For 21K-FD3RU, the Surround Sound can be adjusted using the SOUND menu. See E8.

E12 NICAM/A2 STEREO SYSTEM BROADCASTS

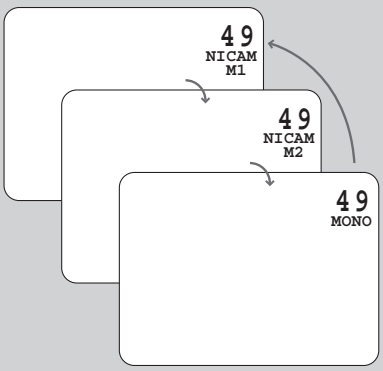
Only for 21K-FD5RU

Enables selection of reception mode when receiving a NICAM-I, -B/G, or -D/K signal

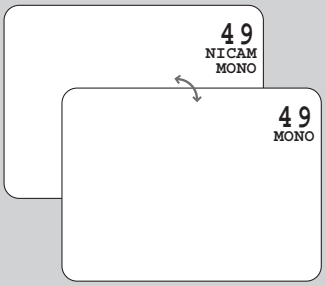
- **Stereo**
  Each time you press MPX, the mode switches between STEREO and MONO.



- **Bilingual**
  Each time you press MPX, the mode switches between M1 (main sound), M2 (sub sound), and MONO.



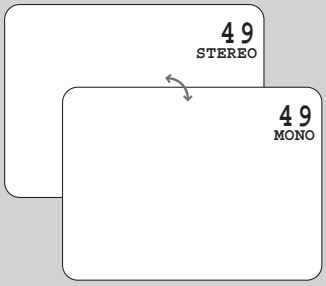
- **Monaural**
  Each time you press MPX, the mode switches between NICAM MONO and MONO.

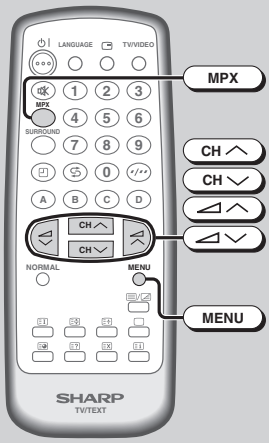


E12 NICAM/A2 STEREO SYSTEM BROADCASTS (Continued)

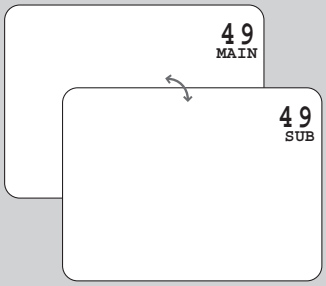
Enables selection of reception mode when receiving an A2 stereo signal (B/G)

- **Stereo**
  Each time you press MPX, the mode switches between STEREO and MONO.



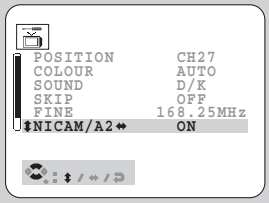


- **Bilingual**
  Each time you press MPX, the mode switches between MAIN and SUB.



If the sound quality is poor due to a weak signal or other problems during NICAM/A2 stereo broadcast reception, set "NICAM" / "A2" to "OFF" to change the TV sound to monaural

1. **Press MENU to call MENU screen.**
2. **Press CH ^ / CH v to select "CH-SETTING".**
3. **Press ◿^ / ◿v to display CH-SETTING menu.**
4. **Press CH ^ / CH v to select "NICAM/A2".**
5. **Press ◿^ / ◿v to select "OFF".**
6. **Press MENU twice to display normal screen.**
   - When set to "OFF", the TV sound is output in monaural (▼).



[NICAM screen]

[A2 screen]

NOTE

- When NICAM/A2 in set to "OFF" on the CH-SETTING menu, MPX cannot be used to change the audio mode (stereo and bilingual settings).
- The setting can be selected individually for each channel position.
- NICAM-I: National and regional broadcast system used in the UK and Hong Kong.
- NICAM-B/G: National and regional broadcast system used in Singapore, Malaysia and New Zealand.
- NICAM-D/K: National and regional broadcast system used in Russia and China.
- A2 stereo-B/G: National and regional broadcast system used in Malaysia, Thailand and Australia.

TELETEXT BROADCASTS

Colour buttons (Ⓐ, Ⓑ, Ⓒ, Ⓓ)

- If link-page data are transmitted from the TV station, each link-page can be viewed using the **Colour** buttons.
- If no link-page data are transmitted, pressing the **Colour** button selects the following pages, respectively:
  RED Ⓐ: Current page No. plus 1.
  GREEN Ⓑ: Current page No. plus 2.
  YELLOW Ⓒ: Current page No. plus 3.
  CYAN Ⓓ: Current page No. minus 1.
- The transmitted page can also be selected by pressing CH ∧ or CH ∨.

NOTE

- While pressing CH ∧ or CH ∨, if the information on top of the current page appear in green colour and page remain no change, this indicate no data are transmitted. In this case, pressing CH ∧ or CH ∨ or **Number** buttons (0-9) to select another page.

Text Page Selectors (0–9)

- While the TV is in Text, Mix, or Cancel mode, the **Number** buttons (0-9) can be used to directly select a page of the Teletext broadcast that has a 3-digit number.

(Hold button)

- Press to hold a Teletext page or sub-page on the screen.
- Press again to cancel the Hold mode.

(Top/Bottom/Full button)

- Press to enlarge the top half of the Teletext image presently on the screen.
- Press a second time to enlarge the bottom half of the Teletext image presently on the screen.
- Press a third time to restore the regular Teletext image.
- Press a fourth time to return to the start of the sequence.

(Index button)

- Press to display the index page.

(Time button)

- **In TV mode:** When a TV signal with Teletext data is received, press to display the real time information on the top right area of the screen.
- **In Teletext mode:** When a selected Teletext page has hidden sub-pages, you can see them by performing the following procedures:
  1. Press .
  2. Enter sub-page number (4-digits) with **Number** buttons (0-9) or press Ⓐ (RED), Ⓑ (GREEN) to select desired sub-page.
  3. Wait until the selected sub-page appears.

(Text/Mix button)

- Press to display the initial page of a Teletext broadcast.
- Press again to simultaneously display the TV picture and Teletext in a mix screen format.

(Picture button)

- Press when in Teletext, Mix or Cancel mode to return to TV mode. If is pressed next, the previous page of the Teletext broadcast is re-displayed.

(Reveal button)

- Press to display hidden information, such as the answers to a quiz.
- Press a second time to hide the displayed information.
- Press a third time to return to the start of the sequence.

(Cancel button)

- Press to return to TV mode, and the **Number** buttons (0-9) and **Colour** buttons to select Teletext pages.

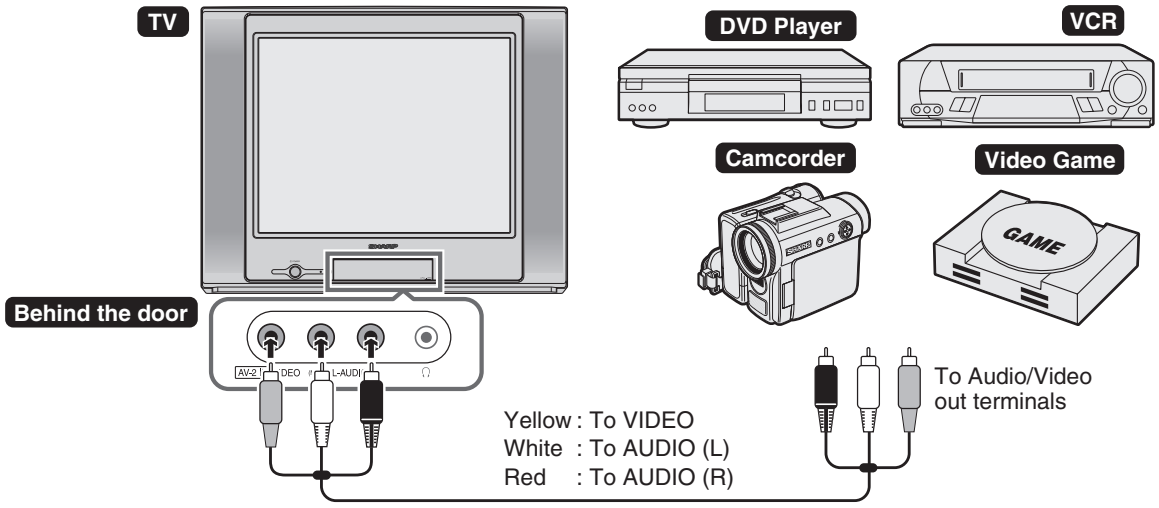
(Reset button)

- Press to return to TV mode.If is pressed next, the initial page of the Teletext broadcast is re-displayed.

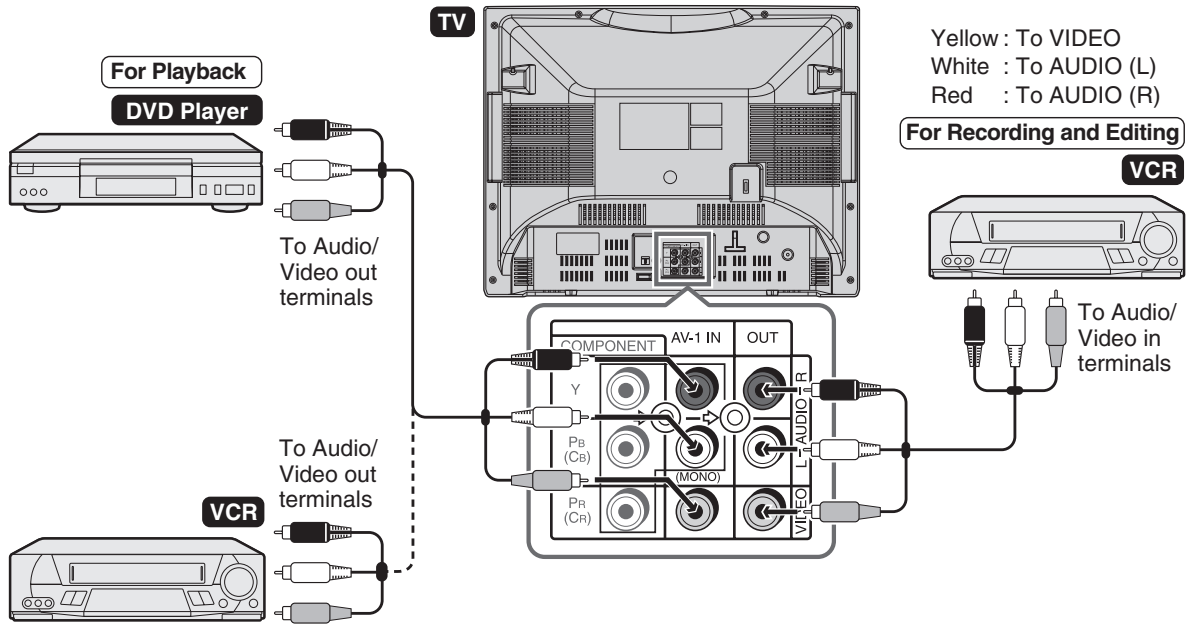
Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



NOTE

- For playback of monaural audio, connect the external source to the audio input left terminal on the front or rear of the TV set (MONO) to hear the same sound from both speakers.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely personal use and not for the illegal copying of audiovisual material protected by copyright laws.

E15 TROUBLESHOOTING

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List / Possible Causes/Remedies	Remote control does not work.	Bars on screen.	Picture distorted.	Picture rolls vertically.	No colour.	Poor reception on some channels.	Picture weak.	Picture lines or streaks.	Picture ghosting.	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound.
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
⏻ **POWER** switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the ⏻ **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

E16 SPECIFICATIONS

MODEL			21K-FD3RU	21K-FD5RU
Receiving System			World multi 21 system	
	TV Broadcasts/ VCR Playback		PAL-I PAL-B/G PAL-D/K	SECAM-B/G SECAM D/K, K1 NTSC-M (NTSC Standard)
	VCR Playback		NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz	NTSC 3.58/5.5 MHz NTSC 3.58/6.0 MHz NTSC 3.58/6.5 MHz SECAM-I (6.0 MHz)
	VCR Playback (Using Video-in terminals)		SECAM-L (French SECAM)	
	Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz NTSC 3.58/4.5 MHz/50 Hz	
Reception Channels				
	PAL-B/G SECAM-B/G	VHF	E2–E12 ch	
		UHF	E21–E69 ch	
	PAL-D/K SECAM-D/K, K1	VHF	C1–C12 ch, R1–R12 ch	
		UHF	C13–C57 ch, R21–R69 ch	
	PAL-I	VHF	B–J ch	
		UHF	21–69 ch (Hong Kong)	
	NTSC	VHF	2–13 ch (U.S), 1–12 ch (Japan)	
		UHF	14–69 ch (U.S), 13–62 ch (Japan)	
	CATV		S1–S20 ch, S21–S41 ch (Hyper)	
Receiving Frequency			48.25 MHz – 863.25 MHz	
Teletext Language			Multi Language	
Channel Tuning			100-Channel Electronic Tuner with Full Auto Tuning System	
Picture Tube			21-Inch Flat CRT	
Terminals			Audio/video input × 2 (front × 1, rear × 1), Audio/video output × 1 (rear), Headphone jack × 1 (front), DVD input (COMPONENT-IN) × 1 (rear)	
Sound Output			7.5 W (RMS) × 2, total 15 W (RMS)	
Power Source			AC 220 – 240V, 50/60 Hz	
Power Consumption			113 W	115 W
Dimensions			605 (W) × 468 (H) × 487.5 (D) mm	
Weight			22.5 kg (Approx.)	

Only for 21K-FD5RU Stereo Broadcast	NICAM-I, -B/G, -D/K, A2 stereo-B/G

NOTE

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.

Note

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